

# FILE NOTATIONS

Entered in NID File ..... ✓  
Dinned .....  
Checked ..... ✓

Checked by Chief .....  
Approval Letter .....  
Disapproval Letter .....

## COMPLETION DATA:

Completed 10/22/77

Location Inspected

WY..... TA.....

Bond released

OS..... PA..... ✓

State or Fee Land .....

## LOGS FILED

Miller's Log..... ✓  
Logs (No.) ..... ✓

I..... Dual I Lat..... GR-N..... Micro.....

Lat..... Mi-L..... Sonic.....



SCOTT M. MATHESON  
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON  
*Executive Director,*  
NATURAL RESOURCES

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771

I. DANIEL STEWART  
*Chairman*

CHARLES R. HENDERSON  
JOHN L. BELL  
THADIS W. BOX  
C. RAY JUVELIN

CLEON B. FEIGHT  
*Director*

August 4, 1973

3E Company, Inc.  
P. O. Box 190  
Farmington, New Mexico 87401

Re: WELL NO. BLUFF BENCH #1  
Sec. 15, T. 40S, R. 22E,  
San Juan County, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above referred to well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

*Kathy Ostler*  
KATHY OSTLER  
RECORDS CLERK

# 3E COMPANY, INC.

*Engineering • Energy • Exploration*

P. O. Box 190 — 505/327-4020

FARMINGTON, NEW MEXICO 87401

August 23, 1977

U.S. Department of Interior  
Geological Survey  
P.O. Box 1809  
Durango, CO 81301

Attention: Mr. Ed Schmidt  
District Engineer

RE: Development Plan for Surface Use  
3E Company, Inc.  
Bluff Bench #1  
1980' FSL & 1980' FWL  
Sec 15, T40S, R22E  
San Juan County, Utah

Gentlemen:

Attached is the "Application for Permit to Drill" (form #9-331C) for the subject well. Also enclosed are the following items: surveyor's plat, drill site plat and vicinity map. Mr. J. D. Hicks of 3E Company, Inc. and Mr. John Keller of the United States Geological Survey have inspected the site.

The development plan for surface use is as follows:

Points 1, 3, 4, 6, & 9 Vicinity map and drill site plat attached.

Point 2. Water bars will be used on all roads where necessary.

Point 5. Water for drilling will be trucked from the San Juan River approximately 2 miles to the south.

Point 7. A waste disposal pit will be provided for the garbage and trash. Location shown on drill site plat. Drilling fluids will be contained in reserve pit until such time as evaporation occurs and then pits will be covered.

Point 8. No camps or airstrip.

U.S. Department of Interior  
Page 2  
August 23, 1977

Point 10. Should the well be a commercial producer, it will be equipped to facilitate producing operations with all drilling pits filled, location leveled and well site reseeded in compliance with current Bureau of Land Management seeding requirements. During dry out time required for the reserve pit it will be fenced to eliminate livestock entry. All facilities will be painted Grey: Federal Standard 595-36357

Point 11. The location is on a gentle southern slope. Vegetation is sparse with only small amounts of sage brush present in the sandy soil. An existing road will be used for access.

Point 12.

John Alexander  
3E Company, Inc.  
P.O. Box 190  
Farmington, NM 87401  
Phone: 505-327-4020

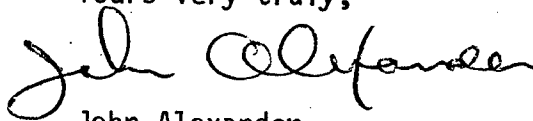
Point 13. I hereby certify that I or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by 3E Company, Inc. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

8-23-77

  
J. D. Hicks

Should further information be desired, please advise.

Yours very truly,

  
John Alexander

JA:st

Attachments

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

3E Company, Inc.

## 3. ADDRESS OF OPERATOR

P.O. Box 190, Farmington, NM 87401

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)

At surface

1980' FSL &amp; 1980' FWL

At proposed prod. zone

same

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

12 miles southeast of Bluff, Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

## 16. NO. OF ACRES IN LEASE

160

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

5900'

## 20. ROTARY OR CABLE TOOLS

rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4625 GR

## 22. APPROX. DATE WORK WILL START\*

September 15, 1977

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2	13 3/8	54.5	160'	200 sacks
12 1/4	8 5/8	24	1400'	500 sacks
6 3/4	4 1/2	10.5	5900'	250 sacks

Move in rotary tools and set 13 3/8" conductor as above. Install blow out preventer. Drill 12 1/4 hole to 1400' and set 8 5/8" intermediate casing as above. Drill 6 3/4 hole from intermediate to 5900' total depth. Run 4 1/2" casing and cement as above.

No abnormal pressure or severe loss circulation is expected.

Mud for intermediate and long string will have the following approximate properties:  
wt. 9.8# per gallon, water loss 10 cc, viscosity 35 seconds per quart, loss circulation additives as necessary.

All pits will be fenced while waiting on completion unit.

Location will be returned to condition required by U.S.G.S. regulations.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED

*John Alexander*  
John Alexander  
(This space for Federal or State office use)

TITLE

Petroleum Engineer

DATE

8-17-77

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

*State of Utah*

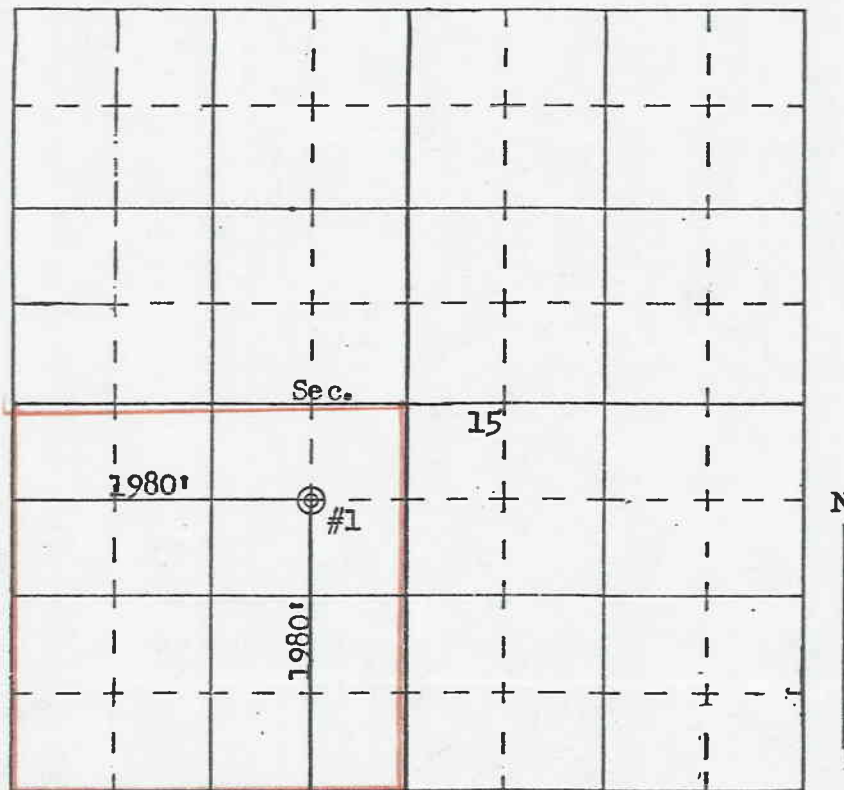
COMPANY 3E Company, Inc.

LEASE Bluff Bench WELL NO. 1

SEC. 15, T. 40S, R. 22E S.L.M.  
San Juan County, Utah

LOCATION 1980' FSL 1980' FWL

ELEVATION 4625 ungraded ground



SCALE—4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPER-  
VISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

*Fred B. Kerr Jr.*  
Fred B. Kerr Jr.

SEAL:

Registered Land Surveyor.

#3950

SURVEYED August 8, 19 77

FARMINGTON, N. M.



# Well Site Plat

← access road

300'

earthen  
reserve  
Pit

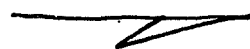
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NORTH



200'

scale 1"=40'

3E COMPANY, INC.  
BLUFF BENCH #1  
1980' FSL & 1980' FWL  
Sec 15, T40S, R22E  
San Juan County, Utah



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL  
OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR  
3E Company, Inc.

3. ADDRESS OF OPERATOR  
P.O. Box 190, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At surface

1980' FSL & 1980' FWL  
At proposed prod. zone

same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

12 miles southeast of Bluff, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

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17. NO. OF ACRES ASSIGNED TO THIS WELL

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19. PROPOSED DEPTH

5900'

20. ROTARY OR CABLE TOOLS

rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

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22. APPROX. DATE WORK WILL START

September 15, 1977

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Location will be returned to condition required by U.S.G.S. regulations.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

John Alexander  
(This space for Federal or State office use)

TITLE Petroleum Engineer

DATE 8-17-77

PERMIT NO.

43-037-30395

APPROVAL DATE

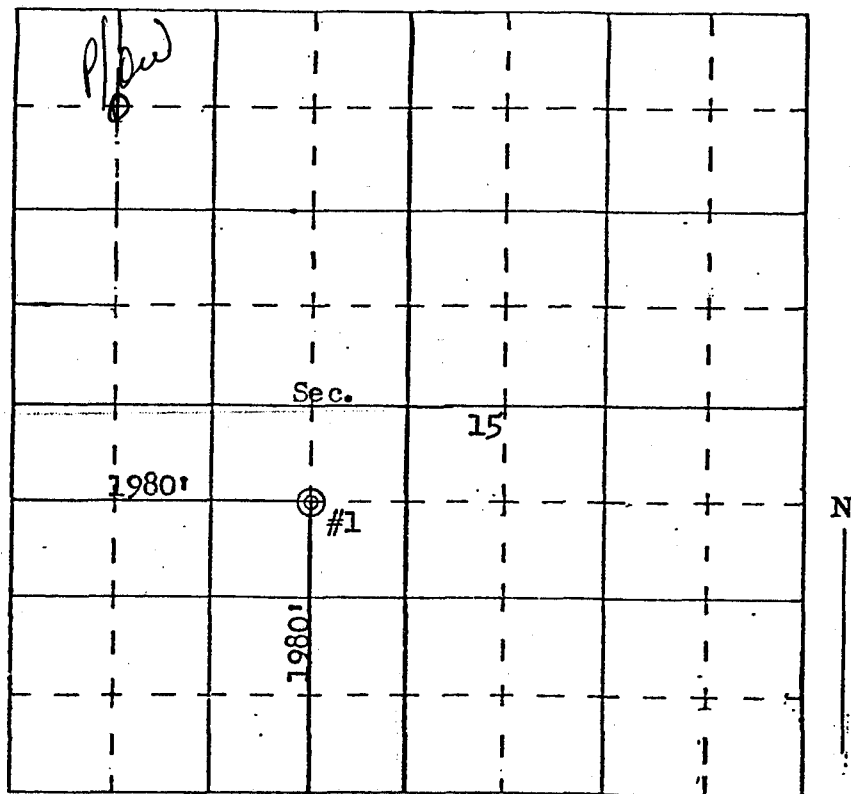
APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

COMPANY 3E Company, Inc.  
LEASE Bluff Bench WELL NO. 1  
SEC. 15, T. 40S, R. 22E S.L.M.  
San Juan County, Utah  
LOCATION 1980' FSL 1980' FWL  
ELEVATION 4625 ungraded ground



SCALE—4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPER-  
VISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

*Fred B. Kerr Jr.*  
Fred B. Kerr Jr.

SEAL:

Registered Land Surveyor.

#3950

SURVEYED August 8, 19 77

FARMINGTON, N. M.

STATE OF UTAH  
DIVISION OF OIL, GAS, AND MINING

43-037-30395

\*\* FILE NOTATIONS \*\*

Date: Aug. 25-  
Operator: 3E Company, Inc.  
Well No: Bluff Beach #1  
Location: Sec. 15 T. 40S R. 22E County: Sau Juan

File Prepared ☒ Entered on N.I.D. ☒  
Card Indexed ☒ Completion Sheet ☐

CHECKED BY:

Administrative Assistant

Remarks:

Petroleum Engineer

Remarks:

Director

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required ☒

Survey Plat Required ☒

Order No. ☐

Surface Casing Change to ☐

Rule C-3(c), Topographic exception/company owns or controls acreage within a 660' radius of proposed site ☐

O.K. Rule C-3 ☒

O.K. In

Unit

Other:

☒ Letter Written/Approved

September 2, 1977

3E Company, Inc.  
P.O. Box 190  
Farmington, New Mexico 87401

Re: Well No. Bluff Bench #1  
Sec. 15, T. 40 S, R. 22 E,  
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer  
HOME: 582-7247  
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30395.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT  
Director

cc: U.S. Geological Survey

CIRCULATE TO:

DIRECTOR	<input checked="" type="checkbox"/>
PETROLEUM ENGINEER	<input checked="" type="checkbox"/>
MINING ENGINEER	<input checked="" type="checkbox"/>
ADMINISTRATIVE ASSISTANT	<input checked="" type="checkbox"/>
ALL	<input type="checkbox"/>
RETURN	<input type="checkbox"/>

*Kathy W.*

September 6, 1977

*7*

Mr. Carl Barrick  
U. S. Geological Survey  
Box 1809 Jarvis Building  
Durango, Colorado 81301

Dear Mr. Barrick:

The State of Utah, by this Division, has reviewed the proposed drilling program by 3 E Company. *drilling*

The surface use plan is acceptable to us as well as the planned restoration.

Incidentally, the Bureau of Land Management at *Motivello* has agreed to oversee this operation.

Sincerely yours,

*Patrick L. Driscoll*  
PATRICK L. DRISCOLL  
CHIEF PETROLEUM ENGINEER

PLD/ksw



NO. 289-77 P

USDA ENVIRONMENTAL IMPACT ANALYSIS

Operator 3-E Company, Incorporated Well Name & No. 1 Bluff Bench  
Location NE/4 SW/4 sec. 15 T. 40 S. R. 22 E.  
County San Juan State Utah Field Bluff Desert Creek  
Lease No. U-3962 Well Type: Development

INSPECTION DATE: August 18, 1977

REPRESENTATIVES PRESENT AT LOCATION INSPECTION:

J. D. Hicks 3-E Company, Inc., Farmington, N.M.  
John Keller U.S. Geological Survey, Durango, Colorado

Surface inspection waived by the State of Utah and Bureau  
of Land Management and Archaeological inspection waived.

Prepared by:

John L. Keller

Major federal action under NEPA: Yes        No X

*State Utah*

Lease:

U-3962

Well No. & Location:

No. 1 Bluff Bench  
1980'FSL 1980'FWL  
Sec. 15, T. 40 S., R. 22 E.  
San Juan County, Utah

USUAL ENVIRONMENTAL IMPACT ANALYSIS

Proposed Action:

3-E Company, Incorporated filed an Application for Permit to Drill the No. 1 Bluff Bench well, a 5900 foot, Desert Creek formation oil test in the NE/4 SW/4, sec. 15, T. 40 S., R. 22 E., San Juan County, Utah, on Federal oil and gas lease U-3962. The lease is composed of 160 acres, of which 160 acres would be dedicated to this well. This would be a development well in the Bluff Desert Creek Pool.

Approximately one acre would be disturbed during construction of the well pad and pits. No additional access road would be needed. The size of the well pad and pit area would be about 200 X 200 feet.

Rotary tools employing a mud circulating system would be used during the drilling operation. The Application for Permit to Drill proposes adequate casing, cementing, mud, and blowout prevention programs. Drilling operations would start by September 15, 1977. Approximately 25 days would be required to drill this test. An additional eight to ten days might be required to complete the well should commercial quantities of hydrocarbons be encountered.

Oral concurrence of the surface owner was given by C. Feight, Director of Utah Oil and Gas Commission. Archaeological concurrence was waived prior to the time of the on-site inspection.

Location and Natural Setting:

The drill site is located approximately three miles north and four miles east of Bluff, Utah. The topography is very rugged a short distance north. The drill site is located on fairly well stabilized sand dunes that overlie the massive Bluff sandstone ledges. Eolian deposits cover the Bluff sandstone formation of Jurassic age exposed in places on the surface. Soil type consists mainly of blow sand. No geologic hazards are known to exist in the immediate vicinity.

The proposed drill site is located in the western portion of the Greater Aneth Field. This area has had intermittent oil and gas development for several years. The main oil producing formation is the Desert Creek. Gas production has been found in the same formation.

The climate is typical of the plains (4,000-6,000 feet) zone. Estimated annual precipitation is six to eight inches. There is a negligible amount of snowfall in the area during winter months. Temperature extremes in the area may range from -15°F during the winter to as much as 115°F during midsummer. Prevailing winds are from the west and southwest and are strongest during the spring and early summer. The Environmental Protection Agency air quality rating is undefined for Southeast Utah. Air pollution results primarily from drilling and automobile traffic along major roadways in the area and from domestic activities in and around isolated communities in the region. Natural factors such as wind blown dust and pollen also tend to lower air quality.

The well site is within the Recapture Wash drainage of the San Juan River Basin. There are no known live streams within about one mile of the proposed well.

Vegetation in the area consists mainly of Russian thistle, Mormon tea, Indian ricegrass and black brush.

Animal life in the area consists mainly of coyotes, snakes, and lizards. Bird species that may be observed in the area include crow, hawk, and a few seasonal species. There are no known rare ecosystems in the area.

The area is used for very limited livestock grazing, generally during early spring months, with no other agricultural activity being conducted. The area is not well suited for popular recreational activities.

Although pottery fragments and flint chips may be found nearly anywhere in the area no significant archaeological or historical resources exist in the immediate vicinity of the proposed drillsite.

United States Highway No. 163 is located approximately two miles west of the drill site. It is the main road between Blanding, Utah and points in Arizona. Secondary and unimproved dirt roads located in the area are used primarily as service roads for existing wells and range lands. They are used extensively by the public. The nearest known occupied dwelling is located about five miles southwest of the proposed drill site.

The surface is owned by the State of Utah acquired from Public Domain, and overlies Federal Minerals. No other mineral activity is known to exist in the area at this time.

#### Effects on the Environment by the Proposed Action:

The proposed well pad and pit would disturb a total of approximately one acre. All existing roads and facilities would be utilized as far as would be practical. Vegetation that would be disturbed during construction consists of black brush and native weeds and grass. An estimated maximum surface cut of five feet may be necessary for the well pad on the north side.



Fresh water aquifers may be penetrated during the drilling operation. The Bluff sandstone formation is the main fresh water aquifer in this vicinity. Should hydrocarbons not be encountered in paying quantities, and if potable water should be encountered at economical depths, the surface managing agency would be given the opportunity to develop the well for livestock water.

During the drilling operation there would be heavy traffic from automobiles and trucks. Upon completion and eventual production of the well, automobile or light truck traffic would be reduced to daily or weekly visits by a pumper in performing required well maintenance duties.

All reserve pits would be constructed large enough to contain any anticipated drilling mud volumes. In the event of a spill, no streams or fresh water ponds would be polluted. A dry wash is located 200 feet southwest of the location. Any spill that might occur could be reclaimed from such a wash.

Any gas leaks that might occur would be dissipated by prevailing winds and would have an insignificant impact upon human habitation. No poisonous gases are anticipated.

There would be an increase in noise and air pollution as a result of construction and drilling operations. Upon completion of the well, the noise and air pollution would be expected to return to normal levels. Due to the relatively small area involved in construction, the ecosystem should be affected very little. Animals in the immediate area would probably vacate the work area during construction and drilling operations. These animals would be expected to return after the well is completed.

Historic artifacts consisting of scattered flint chips and pottery sherds may be found nearly anywhere in the area. No significant sites as listed in the National Register of Historic Places are within the proximity of the work area.

Upon completion of drilling operations, the reserve pit would be fenced and allowed to dry. All trash, garbage, and residue remaining after drilling operations would be placed in the reserve pit and covered when the pit is backfilled and leveled. Reseeding of the disturbed area would adhere to rehabilitation stipulations. All trees and brush removed from the well pad area would be buried in the reserve pit when it is backfilled, scattered on the pad and pit area after well abandonment, or disposed of according to other appropriate surface managing agency requirements. All accessible topsoil removed from the pad and pit area would be stockpiled on the edge of the location. After completion of the well this topsoil would be redistributed over the disturbed area and reseeded according to rehabilitation stipulations, or revegetated by natural means.

Upon abandonment of the well, the hole would be plugged with cement in order to prevent contamination of the various formations penetrated during the drilling operations. The well pad, pit area, and access road would be restored as near as practical to the original ground contour and reseeded. The access road would be blocked and water bars installed

to prevent surface erosion. Surface scars from construction would be visible until revegetation occurs. No excessive destruction of vegetative cover or land surface would be anticipated. Every effort would be made to protect the environment and prevent soil erosion. Precautions and safeguards would be employed to prevent fires, and no burning would be permitted without appropriate permits.

There would be minor aesthetic impact, as there is a main road visible from the well site. There are no Formally Classified Areas known to exist in the immediate vicinity. The area is Public Domain Land owned by the State of Utah. No additional requirements are anticipated for the work area in the event the well does produce except for installation of the usually required production facilities.

Based upon area economic studies, the local economic impact of a single well would be minimal. In terms of the current national energy shortage, positive economic impacts would result from a commercially productive well.

Overall, the proposed action would be expected to cause a minor environmental impact.

#### Alternatives to the Proposed Action:

Development of critically needed oil and gas reserves cannot be realized without development drilling. If drilling is not conducted, sources of energy will continue to decline adversely affecting the economy and security of this nation. Issuance of a Federal oil and gas lease guarantees the lessee the right to prospect for and develop oil and gas from such lease. Since the environmental effects of the proposed action would be minor and can be largely mitigated, the alternative of denying approval of the drilling permit is rejected.

Moving the location would not have a significant adverse environmental impact. Use of other access routes to the site would have a greater or equal environmental impact. State spacing regulations relating to the producing formations could be violated if the location were moved north or west. For these reasons the alternative of moving the location is rejected.

The surface owner could monitor the surface disturbing activities and recommend mitigating measures as necessary. Since the proposed plan is adequate for the area, and the proposed drilling project is acceptable, this alternative is rejected.

#### Adverse Environmental Effects Which Cannot be Avoided:

1. Surface scars resulting from well pad and access road construction would be visible beyond the life of the well.
2. Wildlife inhabiting the proposed well site would leave the area during the construction and drilling operations.
3. Any roads constructed would be of a permanent nature for as long as the well would produce in paying quantities.

4. Revegetation of the area would not be expected for at least six months. Replacement of trees and underbrush, equivalent to existing cover, would take an estimated five to ten years.
5. The time span of the proposed action would be about 30 days for a dry hole and possibly as much as 15 years for a producing oil well. The work area would be removed from the natural habitat until the well is abandoned.
6. Fossil fuels are irreplaceable resources. Continued drilling and production will eventually deplete these resources.
7. There would be considerable noise and air pollution during the construction and drilling operations.

Usual Environmental Analysis:

This requested action does not constitute a major Federal action significantly affecting the environment in the sense of NEPA, Section 102 (2)(c).

Date

9/12/77

*Acting*  
District Engineer

*Carl A. Barnard*  
Durango, Colorado

MATERIALS FOR FURTHER REFERENCE

- Water and Related Land Resources, San Juan River Basin: Arizona, Colorado, New Mexico & Utah. Colorado Water Conservation Board & the U.S. Department of Agriculture, 1974
- Climatological Data, National Oceanic and Atmospheric Administration, 1975
- Woody Plants of Colorado, George W. Kelly, 1970
- Handbook of Rocky Mountain Plants, Ruth Ashton Nelson, 1969
- Flowers of the Southwest Mesas, Pauline Mead Patraw, Fifth Ed., 1970
- Flowers of the Southwest Deserts, Natt N. Dodge, Ninth Ed., 1973
- Flowers of the Southwest Mountains, Leslie P. Arnberger, Fifth Ed., 1974
- 100 Roadside Wildflowers of Southwest Uplands, Natt N. Dodge, Fourth Ed., 1976
- 100 Desert Wildflowers, Natt N. Dodge, Seventh Ed., 1976
- Mammals of the Southwest Deserts, George Olin, Fifth Ed., 1975
- A Field Guide to Western Birds, Roger T. Peterson, 1961
- Air Quality Control Regions in New Mexico, (Map & Table) January 1972
- Environmental Analysis Report, Bureau of Land Management (BLM)
- Environmental Analysis Report, U.S.D.A. - Forest Service (USFS)
- EIS - Odessa Natural Corp. & Jicarilla Apache Tribe - Joint Venture Agreement, 1977
- Environmental Analysis Report, Bureau of Indian Affairs (BIA), Jicarilla Indian Reservation
- U.S. Geological Survey Quadrangle: Bluff, Utah - 1962 - 15 min.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)Form approved  
Budget Bureau No. 42-R1424.

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-3962
2. NAME OF OPERATOR 3E Company, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 190, Farmington, NM 87401		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  1980' FSL & 1980' FWL		8. FARM OR LEASE NAME Bluff Bench
14. PERMIT NO.		9. WELL NO. 1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4625 GR		10. FIELD AND POOL, OR WILDCAT Bluff Desert Creek
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 15, T40S, R22E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

## SUBSEQUENT REPORT OF:

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

## 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Drill 7 7/8" hole from under surface pipe at 197'. Water and Benex mud used to 5200', then switched to gel chem. Conducted drill stem test from 5520' to 5607', only mud and salty water recovered. Total depth of 5800' was reached at 0700 hour 10-21-77. Ran open hole logs, Dual Induction Lateral log and FDC-CNL. Decided to P & A.

Received oral approval from Jerry Long 10-22-77.  
Following intervals will be cemented:

5600-5700	Desert Creek	35 sacks class "B" cement
5400-5500	Ismay	35 sacks class "B" cement
4450-4550	Hermosa	35 sacks class "B" cement
3500-3600	Cutler	25 sacks class "B" cement
1630-1730	Chinle	25 sacks class "B" cement
650-750	Navajo	25 sacks class "B" cement

50' plug across bottom of surface pipe - 40 sacks  
surface plug - 15 sacks

A dry hole marker was placed. Pits will be allowed to dry and location restored to U.S.G.S. specifications.

## 18. I hereby certify that the foregoing is true and correct

SIGNED

John Alexander

TITLE

Agent

DATE 10-24-77

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING

DATE

OCT 24, 1977

BY: P. L. Hargrave

\*See Instructions on Reverse Side

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS, AND MINING**

SUBMIT IN DUPLICATE\*  
 (See other instructions  
 on reverse side)

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG \***

5. LEASE DESIGNATION AND SERIAL NO.

U 3962

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Bluff Bench

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Bluff Desert Creek

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

S.15, T40S, R22E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

1a. TYPE OF WELL:

OIL WELL ☐GAS WELL ☐DRY ☐

Other \_\_\_\_\_

b. TYPE OF COMPLETION:

NEW WELL ☒WORK OVER ☐DEEP-EN ☐PLUG BACK ☐DIFF. RESVR. ☐

Other \_\_\_\_\_

2. NAME OF OPERATOR

3E Company, Inc.

3. ADDRESS OF OPERATOR

P.O. Box 190, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface

1980' FSL &amp; 1980' FWL

At top prod. interval reported below same

At total depth

same

14. PERMIT NO.

DATE ISSUED

15. DATE SPURRED

10-10-77

16. DATE T.D. REACHED

10-21-77

17. DATE COMPL. (Ready to prod.)

P &amp; A 10-22-77

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

4625 GR

19. ELEV. CASINGHEAD

4625

20. TOTAL DEPTH, MD &amp; TVD

5800'

21. PLUG, BACK T.D., MD &amp; TVD

Surface

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

10-5800

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

Dual Induction Lateral Log, FDC-CNL, GR, Caliper

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

27. WAS WELL CORED

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	54.5	197	17 1/2	200 sacks class "B" + 2% CaCl <sub>2</sub>	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.\* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)	
		Plugged and abandoned 10-22-77					Plugged & Abandoned	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	
			→					
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		

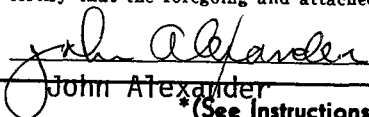
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED


  
John Alexander

TITLE

Agent

DATE

10-24-77

\* (See Instructions and Spaces for Additional Data on Reverse Side)

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29:** "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:			38. GEOLOGIC MARKERS		
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			NAME	TOP	
FORMATION	TOP	BOTTOM		MEAS. DEPTH	TRUE VERT. DEPTH

JK

Federal Building  
701 Camino del Rio  
Durango, Colorado 81301

November 30, 1978

Mr. Patrick L. Driscoll  
Dept. Natural Resources, Div. O & G  
1588 West North Temple  
Salt Lake City, Utah 84116

Dear Mr. Driscoll:

On November 28, 1978, a representative of this office inspected a plugged and abandoned well drilled by 3-E Company in September 1977.

The well, No. 1 Bluff Bench is located 1980'FSL 1980'FWL sec. 15, T. 40 S., R. 22 E., San Juan County, Utah, on Federal oil and gas lease U-3962. The Bureau of Land Management informed this office that surface management was now under the jurisdiction of the State of Utah.

The well pad, pits, and surrounding area has been cleaned, leveled, and reseeded this fall. There is no grass visible, but the area looks good.

Please advise this office if the State of Utah offers any objection to our approval of the abandonment.

Sincerely yours,

Jerry W. Long  
District Engineer

cc: Roswell  
Files

JLKeller:JWLong:pyd



LEASE NO. U-3962

UNIT OR FARM

OPERATOR Three E Company

DATE 7 Sep 78 BY TC

Bluff Bench #1 1980S-1980W

15-40S-23E

P&A Marker up and marked  
Location has been recontoured and  
pits backfilled. Not sure if record  
nothing growing. Looks good OK

LEASE NO. U-3962

UNIT OR FARM Bluff Bench

OPERATOR 3E Company

DATE 11/28/78 BY SPK

Well: 15 Bluff Bench

1980' FSL 1980' FWL

Sec. 15, T. 40S, R. 22E

Location leveled & seeded  
a little broken cement on NE  
corner of pad & 3-4 rows that  
I picked up.

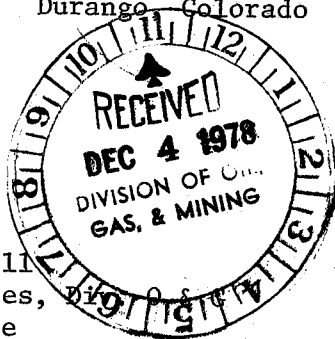
Looks Good

Okay for approval



# United States Department of the Interior

GEOLOGICAL SURVEY  
Federal Building  
701 Camino del Rio  
Durango, Colorado 81301



November 30, 1978

*Could you  
@ your  
convenience  
check this*

Mr. Patrick L. Driscoll  
Dept. Natural Resources, Big O  
1588 West North Temple  
Salt Lake City, Utah 84116

Dear Mr. Driscoll:

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Sincerely yours,

*Jerry W. Long*  
Jerry W. Long  
District Engineer



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYRECEIVED  
MAY 25 1979

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ gas ☐  
well well other

2. NAME OF OPERATOR

3E Company, Inc.

3. ADDRESS OF OPERATOR

P.O. Box 190, Farmington, NM 87401

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 1980' FSL &amp; 1980' FWL

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐CHANGE ZONES ☐ABANDON\* ☐

(other)

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

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3500-3600	Cutler	25 sacks class "B" cement
1630-1730	Chinle	25 sacks class "B" cement
650-750	Navajo	25 sacks class "B" cement

Subsurface Safety Valve: Manu. and Type

Set @ over Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED

John Alexander

TITLE

Agent

DATE

10-24-77

(This space for Federal or State office use)

APPROVED BY

APPROVED

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

ACTING DISTRICT ENGINEER

STIC: 2004.08 po 2007.01.01.00.00.00.00